NLM Technical Bulletin

March-April 1997 No. 295

BIOETHICSLINE Update 1997

The BIOETHICSLINE file was regenerated in March, introducing:

- Twenty-two new 1997 *Bioethics Thesaurus* Keywords
- A new "empirical" Subject Caption: EM (SC)
- Twenty new MeSH-like Publication Types
- 1997 MeSH (as generated by automatic "maps" from existing *Bioethics Thesaurus* Keywords)

New Keyword Descriptors (KW or KWD)

Following is the list of 21 new, and one changed, Keywords in the 1997 *Bioethics Thesaurus* (Keyword Descriptors):

AGE FACTORS (retrospectively changed from Age)
DNA SEQUENCES
EMBRYO DISPOSITION
EMOTIONS
FACULTY
GENES
GENETIC INFORMATION
GENETIC MATERIALS
GENETIC SERVICES
LONG-TERM CARE
METAPHOR
NARRATIVE ETHICS
NURSING RESEARCH
PALLIATIVE CARE
PROFESSIONAL FAMILY RELATIONSHIP
RETREATMENT
RETROSPECTIVE MORAL JUDGMENT
SECULARISM
TIME FACTORS
TRANSGENIC ORGANISMS
TRENDS
VULNERABLE POPULATIONS

Annotations for these Keywords, including explanatory scope notes and cross references to other terms, will appear in the 1997 edition of the *Bioethics Thesaurus*. (Order information is available at the end of this article.)

Note: Many Keywords introduced in each annual edition of the *Thesaurus* have previously been used as Keyword Proposed Descriptors (KWP), and thus will retrieve some records indexed in earlier years.

New Subject Caption (SC)

For the second time in the history of the BIOETHICS file, a Subject Caption representing a particular type of approach to the study of bioethical issues has been added retroactively to existing online records by means of a search strategy algorithm. In 1994, AN (SC) was introduced to permit convenient retrieval of analytical discussions of the literature.

The new Subject Caption, EM (SC), is designed to retrieve empirical literature retrospective to 73 (YR). Its explanatory note follows:

Empirical Approach: EM (SC)
Indicates that the document cited discusses, or is an example of, the study of actual practices or the impact of practices based on direct observation, use of statistical records, interviews, or experimental methods. This Subject Caption was generated retrospectively for existing BIOETHICSLINE records using the search strategy: (KW) *EMPIRICAL RESEARCH OR ETHNOGRAPHIC STUDIES OR EVALUATION STUDIES OR *QUALITATIVE RESEARCH OR *STATISTICS OR SURVEY, or by searching selected Text Word/Keyword combinations.

Figure 1, on page 4, illustrates retrieving citations indexed with the new subject caption. For a complete listing of all Subject Caption values and their definitions, consult the *Bioethics Thesaurus*.

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NLM has a new phone system and a new phone number beginning in early May 1997. See page 3 for details.

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Technical Notes

Data Entry Update - April 8, 1997

The National Library of Medicine (NLM) has eliminated both the MEDLINE data entry backlog and the concomitant indexing backlog. Both of these backlogs resulted from the suspension of NLM's editing and data entry contract from late February 1996 to late April 1996 by the General Services Administration Board of Contract Appeals, the Board which ruled on the protest against that contract award. The MEDLINE database mounted on MEDLARS at NLM is now current.

1997 NLM Invitation and MLA Meeting Reminder

The theme of the 97th Annual Meeting of the Medical Library Association (MLA) is "Committed to Change. Ready for the Challenge." This year's meeting is being held at the Washington Convention Center in Seattle. Attendees are invited to come to Island I in the exhibit hall to visit with NLM staff and see demonstrations of various NLM products and services, including PubMed, Internet Grateful Med, and Grateful Med for Windows.

The NLM Online Users' "Lunch and Learn" session will be held on Sunday, May 25, 12:30-1:15 p.m. in Rooms 602-604. This meeting will provide an overview of developments in NLM's online services, including OLDMEDLINE, PubMed, DOCLINE and others. All attendees will receive a colorful memento from the Library.

The NLM Update will be held on Monday, May 26, 11:00 a.m.-noon, in Rooms 6A-6B. Dr. Lindberg, Director of NLM, will discuss promising new developments at the Library, including the Visible Human Project, the Human Gene Map and a new program to evaluate telemedicine products. Lois Ann Colaianni, NLM Associate Director of Library Operations, will discuss advances in this area of the Library including Relais, a streamlined system for interlibrary loan. Dr. David Lipman, Director of the Library's National Center for Biotechnology Information, will talk about PubMed.

The NN/LM (National Network of Libraries of Medicine) Outreach session will be held Monday, May 26, 4:00-5:00 p.m. Please check the program for the room number. This evaluation session will examine a Regional Medical Library enhancement project in Region 6 (the Pacific Northwest) involving Native Americans and Alaska Natives.

NLM will be presenting "Improving the NLM Home Page: From Logs to Links" at the MLA poster session, Monday, May 26, 4-6 p.m. and Tuesday, May 27, 12:30-2:30 p.m. Check your program for the location of the poster session.

HISTLINE Update

A restructured HISTLINE was available online in 1994, replacing an earlier version created in 1978. When the new MeSH-based HISTLINE was created (see pages 1,9-14 of the July-August 1994 *Technical Bulletin*), approximately 30,000 citations could not be transferred from the old database because they lacked MeSH Headings.

NLM committed to a three-phase project that would add MeSH Headings to these citations and then reintroduce them to the HISTLINE database. Phase I of this retrospective conversion was completed in two updates. In June 1996, 14,974 citations to journals in the NLM collection but not covered in any other NLM database, were added to HISTLINE at that time (see page 2 of the July-August 1996 *Technical Bulletin*). In December 1996, an additional 1,848 records were added.

In Phase II, 9,210 citations, to journal articles from non-NLM sources, were converted. These citations were added to HISTLINE in January 1997. These records can be searched in HISTLINE as follows:

USER:
HMDOLD (SI) AND 9701 (EM)

Both MeSH Headings (MH) and Keywords (KW) may be used for subject searching. Abstracts are not available online for these citations.

In Phase III, NLM will convert old HISTLINE citations to other non-NLM sources, including book chapters, and papers from conferences and meetings. These citations are expected to be added to HISTLINE later in 1997.

Cloning of Mammals or Hello, Dolly

Cloning is currently a non-print entry term to the MeSH heading CLONING, MOLECULAR. That is, the term CLONING does not exist in *Index Medicus* or MEDLINE but if a searcher types in 'cloning' online, articles indexed with CLONING, MOLECULAR will be retrieved. This is in the process of being changed. Since the advent of Dolly, it is expected that users will want to search with the term 'cloning' to retrieve articles about non-molecular cloning. Therefore, for the remainder of the 1997 indexing year, the entry term 'cloning' coordinated with *GENETIC ENGINEERING will be used to allow online retrieval on the subject of mammalian cloning; the MeSH Section will create an appropriate term for this literature for 1998.

The strategy that follows may be used to retrieve the original article in *Nature* on the transplantation procedure used to create Dolly in Scotland.

SS 1 /C?
USER:
cloning and *genetic engineering and *sheep and nature (ta)

PROG:
SS (1) PSTG (1)

SS 2 /C?
USER:
prt include mh

PROG:

1
UI - 97192092
AU - Wilmut I
AU - Schnieke AE
AU - McWhir J
AU - Kind AJ
AU - Campbell KH
TI - Viable offspring derived from fetal and adult mammalian cells [see comments]
CM - Comment in: Nature 1997 Feb 27;385(6619):753
MH - Animal
MH - Animal Husbandry
MH - Cell Differentiation/*GENETICS
MH - Cell Fusion
MH - Cell Nucleus/GENETICS/*TRANSPLANTATION
MH - Cells, Cultured
MH - Clone Cells
MH - Cloning, Molecular
- *Cloning still maps to CLONING, MOLECULAR.*

MH - Electric Stimulation

MH - Embryo/CYTOLOGY
MH - Embryo Transfer/VETERINARY
MH - Female
MH - Fetal Development/*GENETICS
MH - Fetus/CYTOLOGY
MH - Fibroblasts/CYTOLOGY
MH - *Genetic Engineering
MH - G0 Phase
MH - Mammae/CYTOLOGY
MH - Oocytes/CYTOLOGY
MH - Pregnancy
MH - Reproduction, Asexual
MH - Sheep/EMBRYOLOGY/*GENETICS
MH - Support, Non-U.S. Gov't
SO - Nature 1997 Feb 27;385(6619):810-3

New *Online Services Reference Manual (OSRM)* Chapters Available

The following *OSRM* chapters have been recently made available:

Part 3 Searching with ELHILL (updated 3/97)
Part 6 MEDLINE, SDILINE, MEDLINE Backfiles (updated 3/97)
Part 35 Registry of Toxic Effects of Chemical Substances (RTECS)

Available Free Electronically

If you have Internet/ftp capabilities and prefer to download the chapters , you may do so by connecting to the NLM Home Page (http://www.nlm.nih.gov), selecting NLM Publications; Publications About Using NLM Programs and Services; Online Services Reference Manual. The chapters are available electronically in three formats: Adobe Acrobat pdf; WordPerfect 5.1; and PostScript.

Available for Purchase in Printed Format

Paper copies of the chapters can be ordered at a cost of $10 per chapter, please send request(s) with a check or credit card number to:

Mr. Charles Rapisarda
The National Online Training Center
NN/LM Middle Atlantic Region
The New York Academy of Medicine
1216 Fifth Avenue
New York, NY 10029

Please include your complete address and phone number. If using a credit card, the order may be faxed to 212-534-7042. Checks must be payable to the New York Academy of Medicine and directed to Mr. Charles Rapisarda's attention. Sorry, no phone orders, purchase orders or invoices. Please direct questions about this service to: notc@nyam.org.

Meet the MEDLARS Customer Support Staff

Below are some of the faces that match the voices you hear (or the names you see) when you contact the MEDLARS Management Section for assistance on the phone (888-346-3656; see the box on this page for the details about this new number) or via e-mail (mms@nlm.nih.gov or gmhelp@nlm.nih.gov or access@nlm.nih.gov). Clockwise starting with the seated person in the foreground wearing the headset, they are: Sara, Toby, Jane, Claire, Carolyn, Paula, Jan, Rhonda, Mary, Annette, Scott, Marcia, Kathi (seated), and Janet (seated).

Not pictured, but equally important to the functioning of the Section, are: Susan, Anne, Iris, Tamara, Vivian, Barbara, Frances, Jeff, Pat, and Rose.

New Phone System

NLM is improving customer service! Beginning in early May, you may start using a new toll-free number, **1-888-FINDNLM (1-888-346-3656)**. This number will allow you to get to a variety of Library service areas, that previously were reachable only by using separate phone numbers. Our new number, 1-888-FINDNLM, has several short, easy-to-use menu choices. For example, pressing "1" will connect you to the MEDLARS Service Desk options including information on access options and applications, billing, the latest Grateful Med version information, and assistance. Similarly, if you want the NLM Reference Section, or the DOCLINE Service Desk, you simply press the number of your choice. If you are unsure, you can press a number or stay on the line and you will be connected to an information specialist, who will either answer your call or transfer you. Watch for continued improvements in our customer service. You'll be pleased with our simplification and commitment to improved customer service and support.

Tips for MEDLARS Service Desk callers:

Essentially nothing but the number has changed. When you dial the new number, press 1 followed by 4 to be transferred directly to a specialist for assistance during Service Desk hours (Monday-Friday 8:30 a.m. -11:00 p.m. ET, Saturday 10:00 a.m. - 5:00 p.m. ET)

The old MEDLARS Service Desk number (as well as the NLM-wide and DOCLINE Service Desk numbers) will continue for some time; they'll just be mapped to the new number and menu choices.

Continued from page 1

```
SS 1 /C?
USER:
file bioe

PROG:
YOU ARE NOW CONNECTED TO THE BIOETHICS (1973 FORWARD) FILE.

SS 1 /C?
USER:
(kwd) *genetic screening

PROG:
SS (1) PSTG (1122)

SS 2 /C?
USER:
1 and em (sc)

PROG:
SS (2) PSTG (154)

SS 3 /C?
USER:
prt compr include kwd, sc

PROG:

1
SI  -  KIE/52477
AU  -  Watson, E.K. ; Williamson, R. ; Chapple, J.
TI  -  Attitudes to carrier screening for cystic fibrosis: a survey of health care professionals,
       relatives of sufferers and other members of the public.
SO  -  British Journal of General Practice.  1991 Jun; 41(347): 237-240.
KWD -  *attitudes ; *carriers ; *cystic fibrosis ; *family members ; *genetic
       screening ; *mass screening ; newborns ; *nurses ; patients ; *physicians ;
       pregnant women ; primary health care ; *public opinion ; reproduction ; survey
SC  -  cl ; em ; gr ; hp      • The value for Empirical Approach and one
                               of the Keywords that co-occur with this SC value
                               are highlighted in these two sample citations.
    .
    .
    .

SI  -  KIE/51332
AU  -  Witt, David R. ; Schaefer, Catherine ; Hallam, Patricia ; Wi, Soora ;
       Blumberg, Bruce ; Fishbach, Andrea ; Holtzman, Judy ; Kornfeld, Shoshana ;
       Lee, Robin ; Nemzer, Laurie ; Palmer, Robbin
TI  -  Cystic fibrosis heterozygote screening in 5,161 pregnant women.
SO  -  American Journal of Human Genetics.  1996 Apr; 58(4): 823-835.
KWD -  attitudes ; audiovisual aids ; *carriers ; comprehension ; *cystic fibrosis;
       evaluation studies ; genetic counseling ; *genetic screening ;  health education ;
       health maintenance organizations ; Hispanic Americans ; ;mass screening ;
       motivation ; *pregnant women ; prenatal diagnosis ; psychological stress ;
       socioeconomic factors ; whites
SC  -  cl ; em ; gr
```

Key to Subject Caption Values Appearing in this Example

CL - Clinical Approach
EM - Empirical Approach
GR - Genetics, Reproduction, and Abortion
HP - Health Care and Public Health

Figure 1 - Retrieving on a Subject and EM (SC)

New Publication Types (PT)

Nine primary Publication Types (see list below) have been in use since indexing for BIOETHICSLINE began in 1974. One of them appears on every record in the database.

Additional Publication Types were introduced when BIOETHICSLINE began to include some MEDLINE-derived records in late 1996. Although a few of the new PTs were added to older database records retroactively, at present retrieval may be small on some of the new Publication Types.

The new Publication Types are not mutually exclusive, as was the case with the original nine. Most of the new PTs are equivalent to the National Library of Medicine's MeSH Publication Types, and they follow MeSH patterns of using singular or plural forms.

Scope Notes for each of the following Publication Types will be published in the 1997 edition of the *Bioethics Thesaurus*.

Primary Publication Types (1974-)

ANALYTIC
AUDIOVISUAL MATERIAL
BILL
COURT DECISION
JOURNAL ARTICLE
LAW
MONOGRAPH
NEWSPAPER ARTICLE
UNPUBLISHED DOCUMENT

New Publication Types (co-occur with Primary PTs)

ACADEMIC DISSERTATIONS (1997; retroactive by TW search)
ADDRESSES (1997)
BIBLIOGRAPHY (1997; retroactive by KW search)
BIOGRAPHY (1997)
CASE STUDIES (1997)
COMMENT (1997)
DIRECTORY (1997)
EDITORIAL (1997; retroactive by TF search)
GOVERNMENT DOCUMENTS (1997)
GUIDELINE (1997)
INTERVIEW (1997)
LETTER (1997; retroactive by TF search)
MANUALS (1997)
MULTICENTER STUDY (1997)
NEWS (1997; retroactive by TF search)
POLICY STATEMENTS (1997; retroactive by TF search)
PRACTICE GUIDELINE (1997)
REVIEW (1997; retroactive by KW search)
REVIEW, TUTORIAL (1997)
TEXTBOOKS (1997)

HealthSTAR Records Now in BIOETHICSLINE

Beginning with the 9702 Entry Month (EM), BIOETHICSLINE incorporates selected records from HealthSTAR. HealthSTAR-derived records are identified in the Secondary Source ID (SI) field by the prefix AHAKIE followed by the Unique identifier, e.g., AHAKIE/95194497. As of the end of March, there were 12 records in BIOETHICSLINE downloaded from HealthSTAR. As with all BIOETHICSLINE records, each derived record also includes an SI assigned by the Bioethics Information Retrieval Project and identified by the prefix KIE followed by a five digit number, e.g., KIE/51384.

Selected records from MEDLINE were introduced in the BIOETHICSLINE file beginning with the 9612 (EM). See page 7 of the November-December 1996 issue of the *Technical Bulletin* for an article about the introduction of derived MEDLINE records in BIOETHICSLINE.

Comments in BIOETHICSLINE

The Comments (CM) field appears in BIOETHICSLINE only in MEDLINE-derived and HealthSTAR-derived records in which this field is present. Comments in records generated by the BIOETHICS Information Retrieval Project appear in the General Notes (GN) field. To display comments in this file, include both the GN and CM fields in the PRINT command, because the comment information may appear in either field, depending on the origin of the record.

Availability of the *Bioethics Thesaurus, 1997 Edition*

The 1997 edition of the *Bioethics Thesaurus* is scheduled to be published in May. It will provide explanatory scope notes and cross references to broader, narrower, and related terms for most of the 650+ Keyword Descriptors used in indexing and searching BIOETHICSLINE. It will also include updated versions of the "Selected List of 'Major Issue' Keywords," the full list of Subject Captions, the Permuted Keyword Index, and the list of Publication Types annotated with scope notes.

Copies of the *Bioethics Thesaurus, 1997 Edition* may be ordered from:

Attn: Kathleen Reynolds
Kennedy Institute of Ethics
Georgetown University, Box 571212
Washington, DC 20057-1212
Phone: 800-MED-ETHX or
202-687-6689
Fax: 202-687-6770
E-mail:
medethx@gunet.georgetown.edu

The price for standard delivery via first-class mail in North America is $20 per copy; elsewhere, the airmail price is $25. All orders must be prepaid. Checks should be made payable to the Kennedy Institute of Ethics; charges to MasterCard or VISA are also accepted.

The new edition of the *Thesaurus* will also be made available for downloading from NLM's web site. Its availability will be announced in a future technical note in the *Technical Bulletin*.

--prepared by Tamar Joy Kahn
Kennedy Institute of Ethics

Grant Programs at the National Library of Medicine

Introduction

NLM's Extramural Programs funds projects in areas of vital interest to NLM, namely, information management and the enormous utility of computers and telecommunications for improving the storage, retrieval, access, and use of biomedical information. NLM's Extramural Programs uses grants-in-aid and, less commonly, contracts for four types of support: resources, research, training, and publication.

Resource Grant Support

Resource grant support, available to public and private, non-profit health institutions, is designed to improve the infrastructure essential to the management of biomedical information and ranges from basic access in the Information Access Grant to the more sophisticated Integrated Advanced Information Management System (IAIMS) Grant. NLM's resource grants, which are available to single institutions as well as groups of health-related institutions, serve a "seeding" purpose and support the large capital costs of development and demonstration; therefore, there must be a strong likelihood of ongoing future support by the requesting institutions. NLM offers four resource grants:

1) Information Access Grants, primarily directed to small- and medium-sized health sciences institutions, provide one-year support for computer equipment and communications to access NLM's Grateful Med, especially using the Internet, or to install a computerized library system. This grant of $12,000 is available to single institutions as well as groups in which each participant is eligible up to $12,000.

2) Information Systems Grants are distinguished from the Access Grants by the scope and nature of the technological means used and are aimed towards larger health sciences institutions such as academic health science institutions and hospitals; library involvement is essential. Support is available from $50,000 to $150,000 per year up to three years.

3) Internet Connection Grants are intended to enable health-related institutions to become part of the Internet. This grant supports router/gateway equipment (to connect local and wide area networks), Internet Service Provider fees, and communications costs. Support is available for one year to single institutions at $30,000 and multiple institutions at $50,000 (total amount to all participating institutions).

4) Integrated Advanced Information Management Systems (IAIMS) Grants are institution-wide computer networks that link and relate library systems with individual and institution databases and information files, within and external to the institution, for patient care, research, education, and administration. The goal is to create an organizational mechanism to manage more effectively the knowledge of medicine and to provide for a system of comprehensive and convenient information access. Support is provided in two stages: (1) initial planning phase up to $150,000 a year for one to two years and (2) implementation phase up to $500,000 per year for five years.

Research Grants

Research grants are available to investigate the storage, organization, retrieval, access, management and utilization of biomedical information. Research areas include: representation of medical knowledge in computers; organization and retrieval issues for image databases; enhancement of human intellectual capacities through virtual reality, dynamic modeling, artificial intelligence, and machine learning; medical decision-making; linguistic analyses of medical languages and nomenclatures; investigations of topics relevant to health information or library science; and biotechnology informatics issues. NLM offers traditional NIH investigator-initiated project grants (R01) and First Independent Research Support and Transition (FIRST) awards (R29).

Training Support

Training support aids in providing an adequate national pool of scientists to resolve medical informatics issues through formal programs and individual fellowships:

1) Institutional Training Programs in Informatics Research. NLM provides grants to U.S. academic health centers for support of research training in medical informatics and various subfields. Training is usually in general medical informatics, but some programs permit special emphasis in such subfields of informatics as radiation oncology, nursing informatics, dental informatics, and informatics of special interest to librarians. Training sites select trainees at both predoctoral and postdoctoral levels. Each site has its own eligibility requirements. Individuals receive stipends and expenses according to established NIH schedules.

2) Individual Postdoctoral Informatics Research Fellowships are available to those interested in informatics research training who wish to identify their own mentor and host institution. The proposed study can be in general medical informatics, biotechnology, or any other area of informatics. Applicants must have a doctoral degree relevant to biomedicine or computer science, or equivalent degree from accredited domestic or foreign institution. Stipends and expenses are based on established NIH schedules.

3) Individual Applied Informatics Fellowships support health science professionals (including librarians) whose primary interest is to put informatics into practice; develop modern information systems in traditional organizations; use the new information techniques in a specific field; and help disseminate promising programs and systems. Applicants must select their mentor and host institution. The proposed effort can be in any area of informatics. Individuals with a bachelor's, master's or doctor's degree in a field related to health are eligible. Support is based on salary or remuneration which the individual would have been paid on date of award from home institution (not to exceed $58,000 a year).

4) IAIMS Apprenticeship positions are directed by the program director of each IAIMS implementation grant. Admission requirements depend on the program director; a doctoral degree is not mandatory. Support is available up to $50,000 per year.

Publication Grants

Publication grants provide assistance for manuscript preparation and, in some cases, publication of important scientific information which is not commercially viable. Projects may be in such areas as history of medicine; major critical reviews and analyses of current developments in broad and critical issues in the health sciences; works about health sciences librarianship and biomedical information; and certain kinds of secondary information and literature tools in the health sciences, such as handbooks, directories and other reference resources. Publication may present new and innovative methods of organizing and providing information. Publication formats other than print-on-paper, such as electronic or film, are eligible for support. Support is available up to $25,000 per year for one to three years.

Additional Information

Additional information is available from the NLM web site: http://www.nlm.nih.gov; click on Extramural Grant Programs under Grants and Acquisitions. Or go directly to the URL, http://www.nlm.nih.gov/ep/extramural.html. Fact sheets, application packets and the names and addresses of persons to answer specific questions about particular programs are all available on this Web site. If you do not have Internet access you may contact the NLM's Division of Extramural Programs at:

Phone: 301-496-4621
Fax: 301-402-2952

--prepared by Frances Johnson
Division of Extramural Programs

Search Hint: Using Proximity Searching to Locate a Complete Journal Citation Online Without Author and Title Information

Librarians are frequently given incomplete citation information and then asked to obtain full text of the original document. In order to request an article via interlibrary loan, it is necessary to verify the complete citation. One way of doing this is to find the reference online. The simplest way to do this is to use the CONTAINS operator available with proximity searching. This article gives a brief review of CONTAINS and some examples of how to use it for the very specific purpose stated above.

For a more detailed review of proximity searching, including the other search operators, ADJACENT and NEAR, see the articles on pages 16-18 of the January-April 1996 issue and pages 1, 8-16 of the January-February 1995 issue of the *Technical Bulletin*. Alternatively, Part 3 of the *Online Services Reference Manual* (Searching with ELHILL), available for download at http://www.nlm.nih.gov, covers proximity searching. Or you may issue the command online, $INFO PROXLIST, for a list of the $INFO commands that further explain proximity searching.

Definition of CONTAINS

CONTAINS provides the capability to scan an existing search set for a word or phrase or numbers. The ability to scan a retrieved set for numbers allows you to look for numbers in the Pagination (PG), Volume Issue (VI), and Issue/Part/Supplement (IP) fields; these fields are not directly searchable. Using the CONTAINS operator is the **best** way to search these fields.

Making Proximity Work For You

Proximity operators default to scanning the Title (TI) and Abstract (AB) fields unless otherwise qualified. The examples below involve finding complete information for citations where the titles are unknown, therefore the proximity operators need qualification to indicate which field should be searched. In all cases you will need to search on the Title Abbreviation (TA) or the Journal Title Code (JC). If you don't know the TA or JC for a particular journal, first go into SERLINE and do a Title Field Text Word (TF) search to find the journal title and then give the command PRT INDEX to display the record, including the JC and TA fields. These two fields may be used interchangeably in all of the following search examples. Figures 1, 2, and 3 illustrate situations in which CONTAINS may be used to find full citation information.

In order to use proximity searching efficiently (and at a reasonable cost) you will need to know or find some indicator of the year or proximate years for the citation you are seeking. Occasionally, the FL (First/Last Issue) field or General Notes (GN) field in the SERLINE record has information that will allow you to deduce the year of a particular volume. These fields are also displayed with the PRINT INDEX command. Figure 2 illustrates an instance of where the FL field reveals the year of the requested article.

If you enter a search statement using the format, TA contains xx (pg), in MEDLINE or a MEDLINE Backfile without limiting to a particular year, you will probably be searching against a very large set of citations. Even if the search is possible (searches resulting in more than 10,000 records when the terms are first combined will not be processed) it will take a long time and generate substantial costs. Also some journals start renumbering with each volume and so you may retrieve more than one citation with a journal title and page match.The data set to the left of CONTAINS should be as specific (and small in number) as possible.

A Few Caveats about Journal Titles

If you are unable to find a match for a particular journal title, year and pagination (or volume or issue) consider looking at other possible choices for the title. For example, if the only information you are given for a title is: Postgrad Med, the actual title might be *Postgraduate Medicine* (Minneapolis, MN) or it might be *Postgraduate Medical Journal* (London).

In a similar fashion, if a journal has a supplement, and you don't find the citation you are seeking in the journal, it could be

in the supplement. The word supplement may appear at the beginning or the end of a journal title. For example, the supplement to the *Journal of Cell Biochemistry* is titled the *Journal of Cellular Biochemistry. Supplement* but the *European Journal of Neuroscience* (Oxford) has a separately titled supplement called *Supplement ... to the European Journal of Neuroscience* (Oxford). And journal supplements may include the letter 's' as part of the pagination. If you don't find a citation in the first place you look, search on all the logical variants for journal title and pagination.

Conclusion

The CONTAINS operator incorporates and supersedes the STRINGSEARCH (TS) function. This feature of proximity searching can often allow you to locate a citation quickly and precisely with just journal, year and volume or issue or page information.

--prepared by Toby Port
MEDLARS Management Section

Information Available: Journal Name, Year, Page Number
The patron hands you a piece of paper on which is scrawled: Biochim Biophysica Acta, 1993, page 207-209. First go to SERLINE to find the searchable Journal Title Code or Title Abbreviation; then go to the appropriate MEDLINE file to locate the citation.

Search on: **Title Abbreviation (TA) AND xx (YR) contains xx (PG)**

```
USER:
file ser

PROG:
YOU ARE NOW CONNECTED TO THE SERLINE FILE.

SS 1 /C?
USER:
(tf) all biochim: and biophysica and acta

PROG:
SS (1) PSTG (6)

SS 2 /C?
USER:
prt ti

PROG:

1
TI  -  ACTA BIOCHIMICA ET BIOPHYSICA; ACADEMIAE SCIENTIARUM HUNGARICAE

2
TI  -  ACTA BIOCHIMICA ET BIOPHYSICA HUNGARICA

3
TI  -  BIOCHIMICA ET BIOPHYSICA ACTA

4
TI  -  BIOCHIMICA ET BIOPHYSICA ACTA PREVIEWS

5
TI  -  CHINESE JOURNAL OF BIOCHEMISTRY AND BIOPHYSICS

6
TI  -  SHENG WU HUA HSUEH YU SHENG WU WU LI HSUEH PAO. ACTA BIOCHIMICA ET BIOPHYSICA SINICA

SS 2 /C?
USER:
prt -3 index
```

Figure 1 - Locating a Citation from Journal Name, Year, Page Number

PROG:

3
TI - BIOCHIMICA ET BIOPHYSICA ACTA
TA - Biochim Biophys Acta
FL - 1,1947–
PL - AMSTERDAM
CY - NETHERLANDS
LA - ENG
LA - FRE
LA - GER
AI - IM
AI - BA
AI - CXP
AI - CA
AI - MED
GN - AT HEAD OF TITLE: BBA, (JAN. 4 1994)- . ALSO AVAILABLE ON THE WORLD WIDE WEB. PUBLISHED INTERMITTENTLY IN SPECIALIZED SECTIONS.
II - INDEXING FOR ONLINE FILES BEGAN WITH V87N2,1964.
IS - 0006-3002
JC - A0W
JD - BIOCHEMISTRY
JD - BIOPHYSICS
SB - X
SB - M
SX - s
IA - 630531
XS - 1
ZA - 8308011983 723 3 JUN 30
ZA - 8706171987 430 1
ZA - 8903021989
ZA - 9607191995
UI - B15340000

USER:
file med90

PROG:
YOU ARE NOW CONNECTED TO THE BACK90 (1990 - 93) FILE.

SS 1 /C?
USER:

biochim biophys acta (ta) and 93 (yr) contains 207-9(pg)

- **Drop redundant page numbers, 207-209 must be searched as 207-9. If it is searched as 207-209, you will NOT retrieve the citation.**

PROG:
TIME OVFLW: CONT? (Y/N)

USER:
y

- **You may search on the first page number only, but in this journal you will retrieve more than one citation because the journal renumbers the pages with each issue.**

PROG:
SS (1) PSTG (1)

SS 2 /C?
USER:
prt

PROG:

1
UI - 94002243
AU - Marc-Martin S
AU - Spielmann A
AU - Stutz E
AU - Schurmann P
TI - Cloning and sequencing of a corn (Zea mays) nuclear gene coding for the chloroplast specific catalytic subunit of ferredoxin-thioredoxin reductase.
SO - Biochim Biophys Acta 1993 Nov 2;1183(1):207-9

Figure 1 - Locating a Citation from Journal Name, Year, Page Number cont.

Information Available: Journal Name, Volume, Page Number

The patron gives you a bibliography containing the following notation: Jnl Supramolecular Structure Cell Bio vol 16, 193-207. First go to SERLINE to find the searchable Journal Title Code or Title Abbreviation; then go to the appropriate MEDLINE file to locate the citation. In the SERLINE file, you are able to see that Volume 16 of this title was published in 1981.

Search on: Journal Title Code (JC) AND xx (YR) contains xx (PG)

SS 1 /C?
USER:
file ser

PROG:
YOU ARE NOW CONNECTED TO THE SERLINE FILE.

SS 1 /C?
USER:
(tf) supramolecular and structure and cell

PROG:
*NONE-

- **Try searching on logical truncations of the title words if your first attempt retrieves nothing.**

SS 1 /C?
USER:
(tf) supramolecular and structure and all cell:

PROG:
SS (1) PSTG (2)

SS 2 /C?
USER:
prt index

PROG:

1
TI - JOURNAL OF SUPRAMOLECULAR STRUCTURE AND CELLULAR BIOCHEMISTRY
TA - J Supramol Struct Cell Biochem
FL - 15,1981-17N4,1981
PL - NEW YORK NY
CY - UNITED STATES
LA - ENG
AI - IM
AI - BA
AI - EM
AI - CA
AI - MED
GN - CONTINUES: JOURNAL OF SUPRAMOLECULAR STRUCTURE. SUPPLEMENTS ACCOMPANY SOME VOLS. CONTINUED BY: JOURNAL OF CELLULAR BIOCHEMISTRY.
IS - 0275-3723
JC - J81
JD - BIOCHEMISTRY
JD - MOLECULAR BIOLOGY
SB - M
IA - 810618
XS - 4
UI - J39830000

- **MED80 is the file to search for Volume 16**
- **Use the JC for searching, rather than the lengthy TA . Be sure to distinguish 1 (number) from l and 0 (zero) from O.**

2
TI - JOURNAL OF SUPRAMOLECULAR STRUCTURE AND CELLULAR BIOCHEMISTRY. SUPPLEMENT
.
.
.

Figure 2 - Locating a Citation from Journal Name, Volume, Page Number

SS 1 /C?
USER:
file med80

PROG:
YOU ARE NOW CONNECTED TO THE BACK80 (1980 - 84) FILE.

SS 1 /C?
USER:
j81 (jc) and 81 (yr) contains 193-207 (pg)

PROG:
SS (1) PSTG (1)

SS 2 /C?
USER:
prt

PROG:

1
UI - 82055636
AU - Lautenberger JA
AU - Schulz RA
AU - Garon CF
AU - Tsichlis PN
AU - Spyropoulos DD
AU - Pry TW
AU - Rushlow KE
AU - Papas TS
TI - The transforming sequences of avian myelocytomatosis virus (MC29).
SO - J Supramol Struct Cell Biochem 1981;16(2):193-207

Figure 2 - Locating a Citation from Journal Name, Volume, Page Number cont.

Information Available: Comment Line from a Computer Search on MEDLINE
The user has given you a printout with the following citation and she wants the original article to which this citation refers. The Library copy of the journal is missing so you need a full reference in order to get the article on interlibrary loan.

UI - 95405441
AU - Gardner JD
AU - Barbarash RA
TI - The Internet and the Journal [letter; comment]
CM - Comment on: **N Engl J Med 1995 Jun 22;332(25):1709-10** • **The desired citation.**
SO - N Engl J Med 1995 Oct 19;333(16):1078; discussion 1079-80

Search on: Title Abbreviation (TA) AND Date of Publication (DP) CONTAINS xx (PG).

The Comment (CM) field gives you the Date of Publication, a searchable field. Using the DP instead of the Year (YR) will allow the computer to scan for the citation in that one issue of the journal, rather than scanning the whole year, so it is the most efficient way to search when you have this information.

YOU ARE NOW CONNECTED TO THE MEDLINE (1994 - 97) FILE.

SS 1 /C?
USER:
(ta) n engl j med and **1995 jun 22 (dp)** • **Searching on Date of Publication (DP).**

PROG:
SS (1) PSTG (28)

Figure 3 - Locating a Citation from Information in the Comment Field

SS 2 /C?
USER:
1 contains 1709-10 (pg)

PROG:
SS (2) PSTG (1)

SS 3 /C?
USER:
prt

PROG:

1
UI - 95280982
AU - Kassirer JP
AU - Angell M
TI - The Internet and the Journal [editorial] [see comments]
CM - Comment in: N Engl J Med 1995 Oct 19;333(16):1077; discussion 1079-80
CM - Comment in: N Engl J Med 1995 Oct 19;333(16):1078; discussion 1079-80
CM - Comment in: N Engl J Med 1995 Oct 19;333(16):1078-9; discussion 1079-80
CM - Comment in: N Engl J Med 1995 Oct 19;333(16):1079; discussion 1079-80
CM - Comment in: N Engl J Med 1995 Dec 7;333(23):1573
SO - N Engl J Med 1995 Jun 22;332(25):1709-10

- **Citation found.**

Figure 3 - Locating a Citation from Information in the Comment Field cont.

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in the directories:
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ps_tb for PostScript files

Online Services Reference Manual -- Updated Chapters

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(URL: http://www.nlm.nih.gov)
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click on Publications About Using NLM Programs and Services; click on desired publication.

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anonymous ftp to nlmpubs.nlm.nih.gov
in the directory online/journals

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e-mail: admin@mailserv.nlm.nih.gov

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To retrieve the Serials updates online, type:
FILE ALERT at a USER: prompt, then type $info seryymm, e.g. $info ser9603

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Fixed-Fee and Flat-Rate Special Agreements	hajarian@nlm.nih.gov
GenBank Molecular Sequence Database Information	info@ncbi.nlm.nih.gov
Grateful Med	gmhelp@nlm.nih.gov
History of Medicine Division	hmdref@nlm.nih.gov
Images from the History of Medicine	hmdref@nlm.nih.gov
Interlibrary Loan (ILL)/DOCLINE Assistance	ill@nlm.nih.gov
International Programs Office	ip@nlm.nih.gov
Internet Grateful Med Help	access@nlm.nih.gov
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National Information Center on Health Services Research and Health Care Technology (HealthSTAR/HSTAT):	nichsr@nlm.nih.gov
Office of Public Information	publicinfo@nlm.nih.gov
Planning and Evaluation Office	siegel@nlm.nih.gov
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Reference Assistance	ref@nlm.nih.gov
Technical Services Division	tsd@nlm.nih.gov
Toxicology Information Program	toxmail@tox.nlm.nih.gov

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HSTAT	text.nlm.nih.gov

FTP

MEDLARS Server	medlars.nlm.nih.gov
NLM Anonymous Server	nlmpubs.nlm.nih.gov

TOOLS

Internet Grateful Med	http://igm.nlm.nih.gov
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NLM AIDS Home Page	http://sis.nlm.nih.gov/aidswww.htm
e-mail-Based File Server	files@mailserv.nlm.nih.gov

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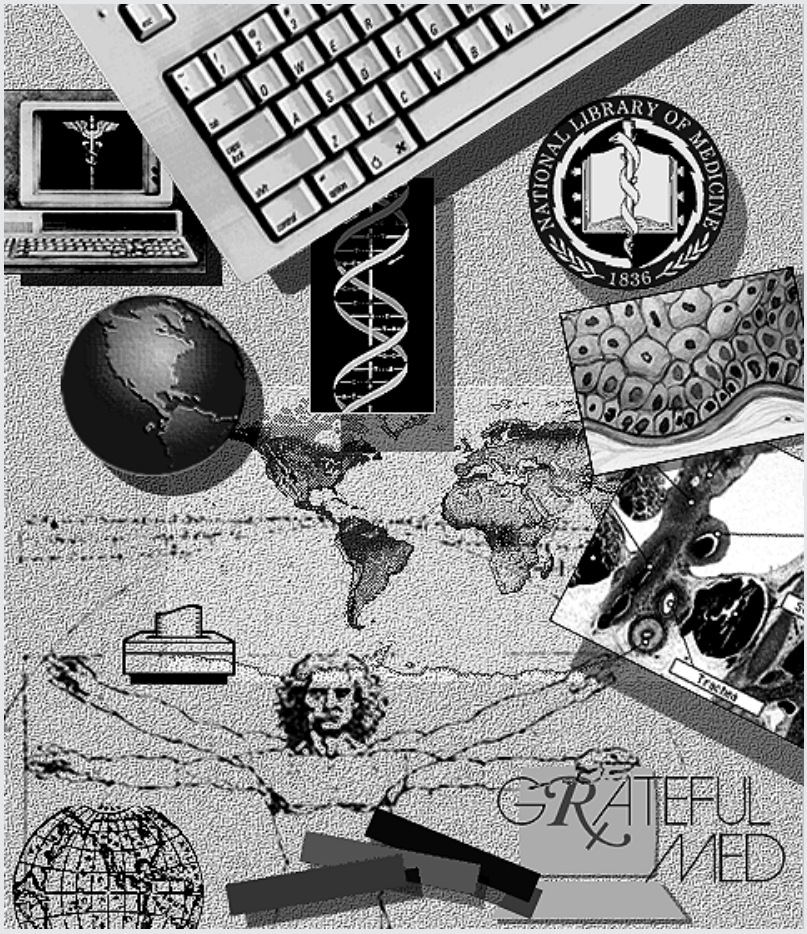

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